ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Joan H. Schessler	3/19/02	02-0229	—	301.925.0426	2080C	SE

8. CCR Title: Record approved RVARs in the VDB

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date:
Joan H Schessler 3/19/02	II	CCR	3/26/02

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
Evelyn T Mdeacon 3/19/2002	VDB	Routine

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
NA	NA	NA

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
N/A	NA	None - Under 100K

22. Source Reference: ☐NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:

23. Problem: (use additional Sheets if necessary)
All approved Requirements Verification by Analysis Reports (RVARs) need to be added to the VDB for tracking Level 3 Requirement Sell-off status.

24. Proposed Solution: (use additional sheets if necessary)
Add the following RVARs to the VDB: 61, 68, 69, 126, 127, 128, 138, 139, 140 per attached hard copy.

25. Alternate Solution: (use additional sheets if necessary)

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
ESDIS could not track L3RR status.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐EDF ☐PVC ☐VATC ☐EDC ☐GSFC ☐LaRC ☐NSIDC ☐SMC ☐AK ☐JPL ☐EOC ☐IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	Disposition: (Approved) App/Com. Disapproved Withdraw Fwd/ESDIS ERB
Randall J. Miller 3/21/02	
33. M&O CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB

ORIGINAL

ECS Requirement Verification by Analysis Report

Report No.: 0061 **L3 Req ID:** SDPS0250

Current VDB Record

CCR No.: 01-0951 **CCR Date:** Jan 9 2002
Release: 5A Future **Category:** SDSRV, DDIST

Requirement Text:

For the first six months following the launch of AM-1, the ECS shall support the production of MOPITT/AM-1 standard products generation at the MOPITT SCF, and provide the archive and distribution of MOPITT products from the ECS. In support of this requirement ECS shall: a. provide MOPITT Level 0 data, ancillary data, MOPITT processing to MOPITT SCF b. archive Level 1 through Level 4 MOPITT science products produced at the MOPITT SCF c. provide previously archived MOPITT and ancillary data to MOPITT SCF for reprocessing (After L+6 months MOPITT science products will be produced, archived and distributed by the ECS.)

Clarification Text:

MOPITT does not use the SIPS machine to machine interface for reprocessing, because they are expected to do processing within ECS by then.

Verification Analysis:

ECS has met the requirement for providing products to the MOPITT SCF (by means of subscriptions) for processing and reprocessing and for archiving MOPITT data products through the SIPS interface. MOPITT processing has not been transferred into PDPS at the DAAC as originally planned but there is still a plan to transfer L1 processing. This can be done by the DAAC without any impact on the ECS.

(Attach additional pages as needed)

VDB Change Recommendations

Release: 6A Partial **Category:**

Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS Joan H Schessler **Date:** 3/5/02

AO Manager: Evelyn M Mahoney **Date:** 3/11/2002

L3 Requirement Verified ESDIS: [signature] **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0068 **L3 Req ID:** IMS-0130

Current VDB Record

CCR No.: 99-0546 **CCR Date:** Jun 30 1999

Release: 5B Partial **Category:** CLS, CSS

Requirement Text:

The ECS shall verify that a user is authorized to access a particular ECS service before providing the service to the user.

Clarification Text:

This includes users of external clients supported by ECS gateways. Current: Authorization only supported for DARs Future: L1B on demand production (5B) and restricted granules (5B)

Verification Analysis:

This requirement is cited on and partially satisfied by ticket RM_5B_03, "On-Demand ASTER L1B and ECS-GDS Gateway".

Although it is not cited on tickets RM_5B_10 (Restricted Granule Access) and RM_5B_11 (MSS User Profile Enhancements), they complete the requirement.

(Attach additional pages as needed)

VDB Change Recommendations

Release: **Category:**

Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS Joan H. Schneider **Date:** 3/5/02

AO Manager: [signature] **Date:** 3/11/2002

L3 Requirement Verified

ESDIS: [signature] **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0069 **L3 Req ID:** IMS-1075

Current VDB Record

CCR No.: 99-0496 **CCR Date:** Jun 7 1999
Release: 5A Future **Category:** CLS
Requirement Text:

The ECS tool that provides users with the capability to construct and submit DARs shall be accessible from personal computers and workstations, without requiring users to install ECS client software.

Clarification Text:

Verification Analysis:

Although this requirement is not cited in a ticket, ECS provides the web-based Java DAR Tool which can be accessed through web browsers that support Java. It utilizes JDK version 1.2, which is fully compatible across the required platforms. Upgrade to 1.3 is planned. Users do not have to install ECS client software.

(Attach additional pages as needed)

VDB Change Recommendations

Release: **Category:**
Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS **Date:** 3/8/02

AO Manager: **Date:** 3/11/2002

L3 Requirement Verified
ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0126 **L3 Req ID:** IMS-0680

Current VDB Record

CCR No.: 99-0496 **CCR Date:** 06/07/1999
Release: Complete **Category:** CLS
Requirement Text:

The ECS shall provide data order capabilities integrated with metadata search capabilities.

Clarification Text:

The Data Order capability is provided by Product Request.

Verification Analysis:

This requirement is satisfied by the Integrated Search and Order capability in the Machine-to-Machine Gateway.

Integrated search and order is provided by the external EDG client, supported by the ECS V0 Gateway.

(Attach additional pages as needed)

VDB Change Recommendations

Release: 5A **Category:**
Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS Joan H Schessler **Date:** 3/8/02

AO Manager: Evelyn M Pearce **Date:** 3/11/2002

L3 Requirement Verified ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0127 **L3 Req ID:** PGS-0458

Current VDB Record

CCR No.: 01-0951 **CCR Date:** 01/09/2002
Release: NO DATA **Category:** NO DATA
Requirement Text:

For Aqua, the ECS shall use EOC carry-out files to generate spacecraft attitude data.

Clarification Text:

Verification Analysis:

Although this requirement is not cited in any ticket, it is satisfied via RH_BP_04, DPREP Processing of Carry-out File Data for Aqua.

(Attach additional pages as needed)

VDB Change Recommendations

Release: BP **Category:**
Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS **Date:** 3/8/02

AO Manager: **Date:** 3/11/2002

L3 Requirement Verified ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0128 **L3 Req ID:** SDPS0260

Current VDB Record

CCR No.: 01-0951 **CCR Date:** 01/09/2002
Release: NO DATA **Category:** NO DATA
Requirement Text:

The ECS shall provide supplemental disk resources at the Goddard DAAC to support AIRS Science Software Integration and Test Activities concurrently with Terra Operational support.

Clarification Text:

Verification Analysis:

Per ECS procurement CCR 00-0450, 360 GB RAID was procured in April 2000 and added to GSFC DAAC science processing configuration.

(Attach additional pages as needed)

VDB Change Recommendations

Release: **Category:**
Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS Joan H. Schneider **Date:** 3/8/02

AO Manager: Evelyn M. Deaver **Date:** 3/11/2002

L3 Requirement Verified
ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0138 **L3 Req ID:** PGS-0976

Current VDB Record

CCR No.: 01-0952A **CCR Date:** 01/08/2002

Release: Future **Category:** NO DATA

Requirement Text:

The ECS shall provide file access subroutines that will, upon execution, allow science processing programs to write files with HDF-EOS libraries based on either or both of HDF Version 4 and HDF Version 5.

Clarification Text:

Verification Analysis:

This capability, for both HDF4 and HDF5, is included in SDP Toolkit Version 5.2.8, delivered in drop 6A.05. HDF5 Version 5-1.4-1 was included in that delivery.

(Attach additional pages as needed)

VDB Change Recommendations

Release: 6A **Category:**

Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS **Date:** 3/8/02

AO Manager: **Date:** 3/11/2002

L3 Requirement Verified

ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0139 **L3 Req ID:** PGS-0975

Current VDB Record

CCR No.: 01-0952A **CCR Date:** 01/08/2002

Release: Future **Category:** NO DATA

Requirement Text:

The ECS shall provide file access subroutines that will, upon execution, allow science processing programs to read files that were written with HDF-EOS libraries based on either or both of HDF Version 4 and HDF Version 5.

Clarification Text:

Verification Analysis:

Addition of HDF Version 5 to this capability, which was already supported for HDF4, is included in SDP Toolkit Version 5.2.8, delivered in drop 6A.05. HDF5 Version 5-1.4-1 was included in that delivery.

(Attach additional pages as needed)

VDB Change Recommendations

Release: 6A **Category:**

Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS **Date:** 3/8/02

AO Manager: **Date:** 3/11/2002

L3 Requirement Verified

ESDIS: **Date:** 3/14/02

ECS Requirement Verification by Analysis Report

Report No.: 0140 **L3 Req ID:** PGS-0977

Current VDB Record

CCR No.: 01-0952A **CCR Date:** 01/08/2002

Release: Future **Category:** NO DATA

Requirement Text:

The ECS file access subroutines shall support the following features from HDF Version 5:
thread-safety
compression (including unlimiteddimensions)
array data types with all dimensions unlimited
compound data types for HDF-EOS point structures
external files
Local data attributes (for both data and geolocation fields)
Links (aliases) for data field names

Clarification Text:

Verification Analysis:

This capability is included in SDP Toolkit Version 5.2.8, delivered in drop 6A.05. HDF5 Version 5-1.4-1 is included in that delivery.

(Attach additional pages as needed)

VDB Change Recommendations

Release: **Category:**

Clarification Text:

(Attach additional pages as needed)

Analysis by: JHS Joan H. Schuler **Date:** 3/8/02

AO Manager: Evelyn M. Deaver **Date:** 3/11/2002

L3 Requirement Verified
ESDIS: [signature] **Date:** 3/19/02